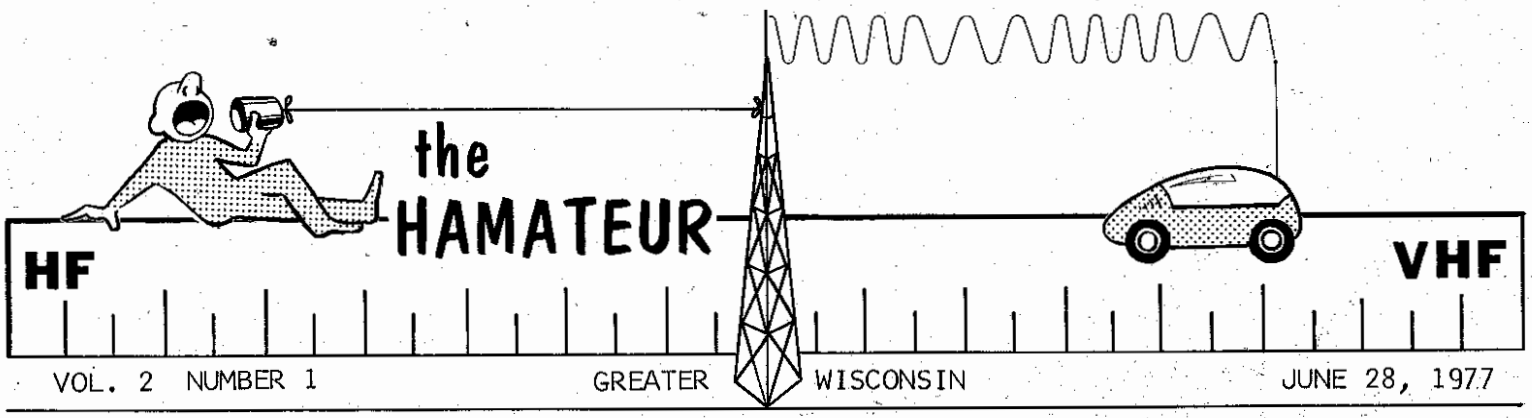


VOL. 2 NUMBER 1 GREATER WISCONSIN JUNE 28, 1977

# the HAMATEUR

This newsletter is published monthly for the amateurs represented by the Radio Clubs listed. Reproduction, with credit given, is granted for anything appearing within the HAMATEUR. Deadline date for the month is the 5th. Publication date is the 28th.

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22/82.....WA9JMA...Larry O'Hara....Whitewater
Tri-County..K9LJM....Horace Hilker...Milton

## WA9 Just Mouthing Off

This being our first anniversary issue, I'd like to take a small trip back through time to our beginning. The idea of a combined newsletter was created at a meeting of the Six Meter Club in April of last year. Officers of the 31/91 and 25/85 repeater groups, along with the EC of the ARES, attended and details were worked out. Our first mailing was 225. The first five issues were turned out on a mimeograph machine by Marsh Baker, WB9FZU. Through the efforts of Don Habeck, W9AMM, we are able to enjoy reading the offset printing of our current paper, which started with the November publication. Many have helped in the folding, stapling and labeling during the past year...the Kaja family (WA9RWO); the Benson family (WB9TPD); Norm, WB9PCQ; Brian, WB9RZL; Larry, WA9JMA, and those who just don't come to mind at this moment. I have had several cash donations ranging from one dollar up to fifty dollars, from individuals not wishing recognition in print. My heartfilled thanks to you all.

The Ozaukee group joined us last November, followed by MRAC in December. The 93/33 system and the Racine Megacycle Club came aboard in February of this year. The following month saw the membership of QCWA joining us. With our April issue, the 22/88 group numbered among our ranks. And joining our family on our anniversary are the 18 members of the Tri-County Amateur Radio Club. Our first commercial advertisers—General Precision Electronic and Ken Forbord Electronics—appeared in the April issue.

From time to time I have received letters of encouragement, complement, and others of a suggestive nature. All were and are welcome.

As we start our second year, I would like to see more individual involvement in the production of this tabloid. With only a select few at the helm, there exists the possibility of something happening to one, and the HAMATEUR would become a defunct entity. So if you can spare a certain amount of time each month, and would like to become actively involved, let me know. I'd be happy to discuss this in detail either on the air or on the land line.

73's Larry McCalvy, WA9JMO

## CLUB News

**146.22 IN** **SOUTH EASTERN WISCONSIN FM AMATEUR REPEATER SOCIETY** **146.82 OUT**

The next meeting date is Thursday, July 28, at 7:30 P.M. The meeting will be held at the channel 4 TV Studios on E. Capitol Drive. Any hams wishing to come to the meeting are welcome, and anyone wishing to join 22/82 can contact Tom Zillmer, WB9GAD, at 648 E. Wilson Street, Oconomowoc, Wis. 53066.

I only have one thing to report....22/82 beware! The Wausau repeater 22/82 is going up higher on the tower to about 350 feet on or about July 1, 1977, so we might be getting more interference on our repeater.

73's Larry, WA9JMA

146-07 IN MILWAUKEE COUNTY AMATEUR RADIO EMERGENCY SERVICE 146-67 OUT

MEETING: Tuesday, July 5, 1977, 7:30 PM at Red Cross Building, 26th & Wisconsin Ave.

SEVERE WEATHER OPERATIONS: Enclosed you will find a booklet describing what and how to report during severe weather conditions. It is extremely important that all operators in the five county area (whether ARES members or not) are completely familiar with the procedures that will be used so that all Hams can assist during weather emergencies. We have had many weather alerts this year, and we will undoubtably have many more before the tornado season ends. All hams are urged to attend our regular monthly meetings for the special National Weather Service "Skywarn" training sessions on correct spotting, identification and reporting of storms and tornados. Our severe weather communication system works extremely well, but like any operation, it can be improved. The key to improvement is for all operators to follow the exact procedures as described in the booklet and: (1) keep the messages short and to the point, (2) give your information slow enough for the receiving station to accurately copy it and write it down, (3) report only the information requested by the Net Control operator and that which you know is of value to the National Weather Service, (NOTE: reports of light rain, slight winds, or slight temperature changes from areas not under a watch, are of no real value to the Weather Service during severe weather watches.) (4) Remain silent and monitor while observing weather conditions at your location. Do not check-in unless the net control requests you to do so. (5) Remember, the main purpose of our service is to provide the Weather Service with needed visual sightings and reports from those areas that their radar shows are in danger. (6) Remain on frequency until the net is officially secured. Many times the frequency may be very quiet, but other storms or emergencies may be developing.
The National Weather Service, Emergency Government, Sheriff's Dept., and the Red Cross now rely very heavily on our communication system. They have nothing but praise for the professionalism shown by all the amateur radio operators. Your assistance and knowledge of the correct procedures will make a very good emergency communication system even better.

Bob, WB9NNJ

146-31 IN MILWAUKEE REPEATER CLUB 146-91 OUT

Next Meeting Coming September....look for details
The "Sweet Velvety" Voice of 31/91 Has Returned Karen (XYL of Bob Burgermeister WB9IJY) has returned to the airwaves on 31/91 once again and can be "luciously" heard every hour and half hour reminding us of good operating practices as well as keeping us accurate with the correct time. On occasion, Karen gets a little ahead of herself with the time. This is due to a slight malfunction in the tape unit in which she resides. However, "RYO" and "RWO" will do all they can to insure the problem is rectified, so bear along. Karen's popularity is growing fast. Upon being called by Ed (W9DYO) last week, Al (K9AA) blurted out, "Wait a minute Ed, the Girl is getting ready to come on!" There was a short pause, Karen took to the airwaves and the QSO continued on. Watch out, Karen! Word has it that Al is one of those "Sexy Senior Citizens!"
Repeater Amplifier Humming Along Just Fine Our repeater's overworked Gonset amplifier is faithfully humming along at the rate of 12 to 13 hours per day holding steady at 70 watts. Looks like the modification which was made early last month is holding up in fine fashion! 73's Larry Kaja, WA9RWO, Pres. MRC

147-93 IN SOUTH EASTERN WISCONSIN AMATEUR RADIO SOCIETY 147-33 OUT

Next Meeting Wednesday, October 5, 1977, Waukesha City Hall
At the S.E.W.A.R.S. meeting held June 1, 1977, Brian, WB9RZL, was appointed Program Chairman. He has a couple of ideas already lined up for short programs at future meetings. If you have any suggestions, call him. A committee was formed to co-ordinate the club picnic in August. A 6-man work crew was assembled for Tuesday, June 7, for the purpose of installing antenna supports on a second water tower in Waukesha. Butch, K9WQG, and associates have a new 6 meter machine almost ready and various links have to be installed. Presently being considered are a split site for the two meter system and control links on 10Ghz, using the new Microwave Associates Gunnplexers. The split site will greatly improve receiver sensitivity, and with 10 GHZ links, there is a lot less chance of intermod or stray signal interference appearing on control frequencies.
Now that summer is here, band openings are becoming more prevalent and often our system is brought up by mobiles from other areas. When interference is heavy, a control operator may elect to put the system on either PL or tone access. Development is currently under way on a really cheap PL module that will be made available to all. If the system is on tone access, a tone of 1477hz, or a touch-tone #, will bring it up. Dues ($7.50 for the remainder of the year) and correspondence should be sent to SEWARS, P.O. Box 605, Waukesha, WI 53186. News or information for this newsletter should go to the same address, or to either WB9BSO or WB9TPD. 73's Bruce, WB9BSO

## RACINE MEGACYCLE CLUB

The R.M.C. will meet at the American Red Cross Building, Taylor Ave. Road between Racine and Kenosha, on July 11. WA9HOH invites all interested parties to attend. Will the R.M.C. hold a picnic? Plan to attend the next meeting and root for or against the picnic. The club's participation in "The Walk for Mankind" June 4 was a great success. Thanks to the 87/27 repeater group for the use of the repeater.
The Kenosha breakfast looks like it will be extended to the week of July 10. Keep in touch with them on 94 roll call and reservations.
Word has it that Paul, K9LWT, will sport a 40 thru 10 meter quad....WOW! With his Signal One and that antenna, he'll knock 'em dead....WB9OQD is on six meters....Rumor has been heard that W9HAG is starting a repeater at his summer home in the Adams National Forest....K9AKG is taking Red Cross emergency messages....Anyone who's in the area of Highridge Hospital and has a few minutes, stop and say hullo to Cecil Taylor, W9DAZ.... W9JPC/N9HI joined the Indiana Outlaw gang and it has been reported that he has been out in the woods eating raw meat and drinking beer out of a rusty metal 6L6.
I've got a few copies of the construction details of the new CCD Antenna. See me after the club meeting for one.
See you at the "Happy Hour" Swapfest 77 July 9 in South Milwaukee. 73's Stu, W9HI

## 6-MIC SIX METER INTEREST CLUB 6-MIC

Meeting date: Unknown
The summer of 1976 ushered in some very intense sporadic E-Layer propagation. Indications of a repeat for 1977 are already in evidence. More on this later.
This is the beginning of the period when E-Skip is the predominant mode for the upper HF and lower VHF bands ....roughly, May through August. One must keep in mind, however, that 6 meters is the propagation melting pot. All known modes show up on this band at one time or another. If you like variety and challenge, this is where it's at! K9DTF of Sheboygan worked Florida with 400 milliwats via E-Skip. WA9DOT has worked the East Coast daily on forward scatter (TROPO). WB9FZU worked a VE3 on Aurora. Both stations were running 3 watts (the Canadian using his TV antenna). The late K9QHS worked Australia on F-2. Back Scatter with nearby states is almost too common to mention. These examples are just the appetizers.
Those of you who are having problems with a few elusive states towards W.A.S. should look to 6 meters. Running a reasonable amount of power, about 100 watts or so, 48 states can be worked during THIS summer. Alaska is not too difficult...WA9DOT, WA9KVS, WB9NSZ and WB9OPD all made it last June. Hawaii is the real challenge—and they were heard several times last year. Six meter QRP W.A.S. should stir a sense of adventure in the heart of the most hard-nosed DX chaser.
During the month of May all but the states in the far West were worked. The more extensive openings were long term, like all day and into the wee hours of the next A.M. Some of these May openings were so intense and lasted so long that I'm quite excited about what they could portend.
Six MIC extends a hearty welcome to 6 meters to Jorge, WB9ORT; Tom, WB9OQD; Alice, WB9QHG; Jerry, WB9QKV; Larry, WB9RGN; Royce, WB9ROE; and Scott, WD9DHK. Hope I didn't forget anyone.
The Six MIC net (SSB) is still not getting needed support. May 19 there were 27 check-ins from six states. Only three of those were 6 MIC members. On the other hand, the MAN net is showing a healthy resurgence. Remember, Sundays 9:00 P.M. at 50.125 (SSB) and daily 9:00 P.M. at 50.310 (AM).
73's Bob, WB9OPD

## THE WISCONSIN CHAPTER
## QUARTER CENTURY WIRELESS ASSOCIATION, INC.

On Saturday, June 4, at 11:00 A.M. the parking lot across from Smith Bros. Fish Shanty in Port Washington was almost filled with the cars of QCWAers. The happy hour had begun as old-eyeball QSO's began. The first quarter barrel was almost spent when 142 members, member's wives, and guests queued up for a most delicious fish and beef ala stroganoff luncheon, after which lemon meringue pie was served.
Chairman Gerry vanden Wymelenberg, W9VOW, presented to Butch Greve, W9EWC, and George Gabert, W9JM, their uninterrupted 50 year QCWA certificates. Our reliable photographer, Don Yapp, W9EJD, got some good shots of the presentation.
Butch, W9EWC, introduced his guest, Doug, ZS6TE, and his wife, Marzel from Johannesburg, South Africa. We were happy to welcome our first chairman, Sid, W5UAU, and his wife Bertha up from Horseshoe Bend, Ark. They were just nosed out for travelling the greatest distance to the luncheon by ZS6TE.
Chairman Gerry asked Gordy Fedder, W9YFW, to arrange for the fall meeting. He has selected the place, a supper club in Gresham, 10 miles west of Shawano, on October 1, 1977. A couple of years ago, W9BKD, W9OUT, W9CUW, W9YFW and W9VQD and wives had dinner there. The food and facilities were great.
John LeBlonde, W9FZC, Harvey Baalke, W9HNX, and Fred Linn, W9NZF, agreed to serve on the nominating committee to recommend at least three candidates for Director. The two year terms of Tom Gettelman, W9IZO, Butch Greve, W9EWC, and Gerry Wymelenberg, W9VOW, expire this fall. If you have a candidate for Director, recommend him or her to one of the nominating committee or be present at the fall meeting to make your own nomination from the floor. We thank Tom Gettelman, W9IZO, and George Ruger, W9DVD, for their very fine efforts which made this meeting the best attended so far.
We welcome to the Wisconsin Chapter, Charles A. Wendt, W9MUM, 711 Fleming Ave. Eau Claire, Wis. 54701. His brother Harold, W9BXM, joined two years ago. You may want to start planning your visit to Expo '77 in September. The Friday night before, the Chicago Chapter and The Wisconsin Chapter will hold their third dinner, probably at the Holiday Inn in Libertyville, Ill. See you there? Travis, W9VQD

## TRI-COUNTY AMATEUR RADIO CLUB

Our regular monthly meetings, as in the past, are cancelled for the summer. Our next meeting will be a picnic and corn boil in September to be held in Jefferson. The club was originally formed to aid prospective hams in the Rock, Jefferson and Walworth Counties area. Thus, the name Tri-County. This does not prohibit anyone from any other area from becoming a member.
Our membership dues are $5 per year. At the present time code and theory classes are being conducted for any desired ham license. We are again this year offering a $500 one-time scholarship to students of advanced electronics having been in school one year beyond high school. Our club is also the sponsor of THE WHITEWATER HAMFEST held each year in March. This coming year, due to its popularity, we must move to larger quarters. So we have made arrangements to hold our next Swapfest in the Jefferson County Fairgrounds. It will be held in March as in the past. Watch the HAMATEUR for further developments.
For any further information about the club, you may write to Horace Hilker, K9LJM, 261 E. High Street, Milton, WI 53563. 73's K9LJM

**M·R·A·C** **MILWAUKEE RADIO AMATEURS' CLUB** **M·R·A·C**

The next regular meeting of the Milwaukee Radio Amateurs' Club will be September 22, 1977, at the Wauwatosa Savings & Loan Building, 7500 W. State Street at 7:30 P.M. (use the State Street entrance).
The annual picnic will be held July 31 in Kletzsch Park, 6534 N. Green Bay Road, near the pavilion and Area one starting at 11:00 A.M. until ??. Free beer...but bring your own lunch!
A code and theory class is being conducted at the Wauwatosa East High School, 76th and Milwaukee Ave. (Vliet) each Wednesday from 7:00 to 9:00 P.M. for anyone still interested in starting or improving themselves. This class runs through August 10.
New club officers and directors elected in June are: Chairman of Board, W9MDG; President, W9UGN; 1st Vice Pres., W9ZQK; 2nd Vice Pres., WA9MLY; Secretary, W9JK; Treasurer, WB9BWP. Directors are W9ZPV, W9RKP, W9YYW, W9WYJ, WA9RYF and WB9BGJ. 73's Al, W9MDG

**146.25 IN** **MILWAUKEE COUNTY REPEATER SOCIETY** **146.85 OUT**

Summer Recess for WR9ABS Members As mentioned in last month's newsletter, there are no scheduled meetings held during the months of June, July or August. Future newsletters will advise members as to details on the September meeting.
An interesting and informative presentation on Field Day activities was given by Morris Hernik, WB9JHW, at the May meeting. Morrie's personal experiences, along with those of his wife Tamar, and many great slides made for a very interesting evening for all. Our thanks to Morris and his wife for their excellent presentation.
Members Invited to Participate As editor of our monthly article in the HAMATEUR, I invite ALL members who care to participate in the writing of articles for the newsletter to contact me, Bill Neuman, WB9EFP, prior to the first of the month. My home phone number is (414) 447-1954. Comments or articles from any members will be greatly appreciated and welcome.
WB9ABS to be Represented at W.A.R. Meeting Tom, WB9CSK, will be attending the W.A.R. meeting planned for Saturday, June 11, in Green Bay, Wis. Highlights of the meeting will be included in the next issue.
73's Bill, WB9EFP

**3940 KHz** **OZAUKEE RADIO CLUB, INC.** **146.37/97**

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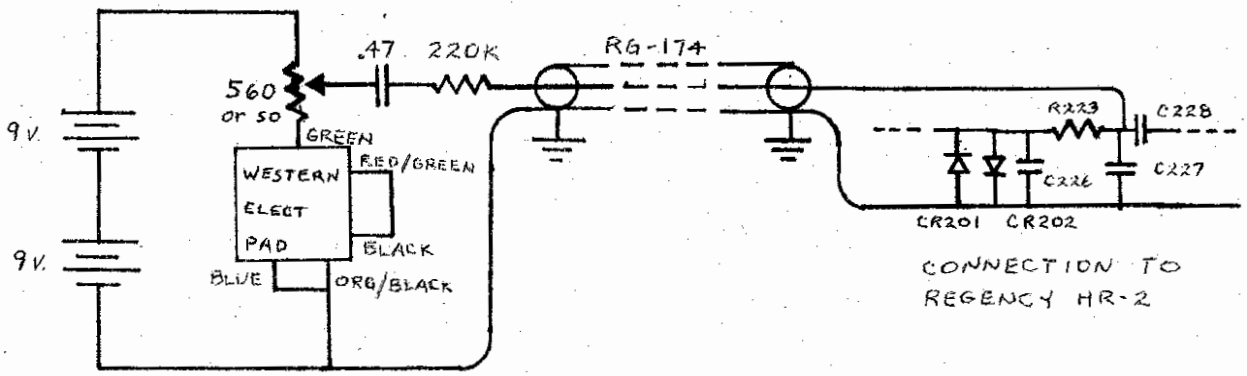
## Technical Topics

BY STEVE REYER - WA9VNJ

Touch-tone Pads It seems that nearly everyone on 2 meters possesses at least one Western Electric touch-tone pad and has his own method for interfacing it. Most techniques seem to work after sufficient experimenting though it would be nice to have it work "first time, every time". Here are some tips which may prove useful in your application.
(1) I have discovered from Gregg, WD9DHI, that pads manufactured after the beginning of this year (approximately) contain a 7-volt zener diode to act as part of a regulated power supply for the pad. I haven't seen the schematic so I don't know if a series dropping resistor (always required when using a zener) is part of the pad or not. If the resistor is internal, then it may be possible to completely eliminate the usual 560 ohm external resistor. Any definite conclusion can be drawn only after seeing the schematic. If anyone has any information on this subject, I would very much appreciate receiving it.
(2) In pre-1977 pads which contain no zener, an external 560 ohm (or so) resistor is required for two reasons. The first is to limit the maximum current flow through the pad. The second is more subtle. Without the 560 ohm resistor the equivalent AC impedance across the pad is equal to or less than the internal impedance of the battery (generally assumed to be almost zero). With almost no AC impedance, no AC voltage can appear across the pad and thus no tones.
(3) If pad operation is sluggish with the commonly used 9-volt battery and 560 ohm combination, try increasing the source voltage to 12 or 18 volts. With the resistor included, no harm should come to the pad.
(4) If you run the pad off the automobile's 12 volts and experience ignition whine, try the circuit outlined by Joel, K9TBD in the Dec. '76 HAMATEUR. Naturally don't try to filter out the whine on the audio

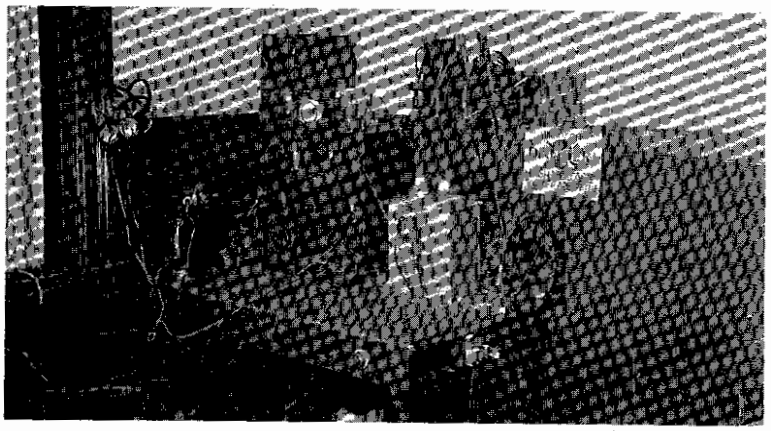
line between the pad and the rig as the tones will be filtered out too!
(5) Use shielded cable (RG-174 is nice and small) between the pad and the rig.
(6) Technically, the circuit given in the ARRL FM and Repeater Book, for high impedance circuits has a major disadvantage. The circuit presents a different load impedance to the rig, dependent on where the level pot in the pad circuit is set. Thus, by adjusting the pad level, you may also be adjusting your mic audio by inadvertantly affecting the mic circuit. Here's a circuit which I use with my Regency HR-2 and which should suffice in any high impedance application. Regardless of level setting, the effect on the mic circuit is always the same—and negligible. 73's Steve, WA9VNJ



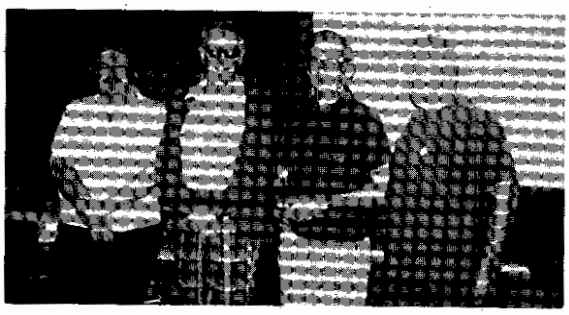

HIGH-Z PAD CIRCUIT

## memories at a glance ...

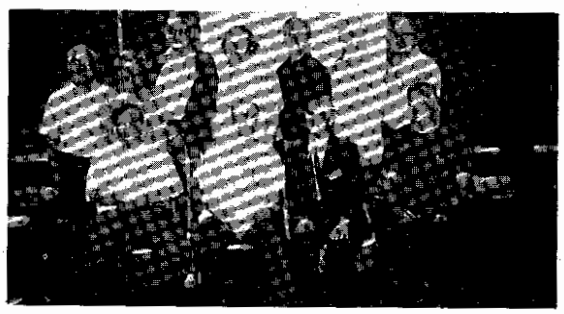
The two pictures below were sent to Dave Barquist, K9PAK, after a talk show presentation of Amateur Radio on radio station WRIT. Dave forwarded them to me with the following letter:
"The show (guested by Dave and Bob Lade, W9UCR) brought back many memories. I built my first 'wireless' set in 1912. Used a rolled outs carton and a piece of galena and a cat whisker for the receiver and a buzzer for the transmitter. It worked, and several hams in Wauwatosa 'talked' via code, passing many pleasant hours in the ether. Later I built the sets pictured and needless to say the most pleasure I can recall was had talking to endless hams throughout the country. In August of 1923 I married and family attention which followed forced me to retire. Those ten years as a ham were vividly brought back as you fellows talked over WRIT last evening. Thanks a million, and should your paths venture past my address, I would be happy to have you drop in and say hello." Signed Vic Kansier, 2610 N. 66th Street, Wauwatosa. Pictured on the left from December 1921, is a 25000 meter capacity for receiving—3-stage and the transmitter is a 500 watt rotary spark, with the call 9BPC operated by Vic. On the right, also built by Vic, is a station set up in June, 1916, as an American Radio Relay League Inc. appointment signed by C.D. Tuska and Hirom Percy Maxim (inventor of the machine gun).



## at a glance ...



MRAC New Officers: (l to r) Treas. WB9BWP; Sec. W9JK; Pres. W9UGN; 2nd VP, WA9MLY; Missing 1st VP, W9ZQK.



MRAC New Officers and Directors: (l to r) Standing WB9BGJ, W9WYJ, W9JK, WB9BWP, W9UGN, W9YYW, W9ZPV
Seated WA9RYF, W9RKP, W9MDG, WA9MLY
Missing W9ZQK

# WISCONSIN REPEATER ACTIVITY

BY JOHN LA BLONDE - W9FZC

In the May issue of the HAMATEUR, I attempted to bring everyone up-to-date on 2 meter repeater activity through the southern, central, western and the northern sections of Wisconsin. This article will keep you abreast of the activity on "2" along the eastern border of the state, with the exception of the metropolitan Milwaukee area. Perhaps those of you who plan vacations through the remainder of the summer will gain some benefit from the information.

Moving southward from the Florence County and Iron Mountain, Michigan, area, and after running out of range on the 146.25/85 system at Iron Mountain, the next repeater you will be able to access is the Sturgeon Bay machine on 146.13/73. It has excellent coverage down to and beyond Green Bay on the south as well as nearly to Antigo on the west. Then comes Green Bay with two repeaters, one on 147.72/12 which requires an 1800 hz. tone or whistle-up, and the other machine on 147.96/36. The 72/12 system has tremendous coverage to the west and south. Moving south on Highway 41 from Green Bay will bring you into range of the Appleton repeater on 146.16/76. This machine is located on the state radio tower at Chilton and is doing a fine job. Continuing south on 41, the Oshkosh machine on 146.25/85 is fairly active and can be reached from anyplace in the Fox River Valley. Further south on 41 brings you into range of the Fond du Lac repeater on 147.69/09. There never seems to be much activity on the Fondy machine, but keep trying...someone might answer you.

If you come out of Green Bay and drive down the Lake Michigan shoreline, you will be able to work the Manitowoc repeater on 146.01/61. Here too, the activity is rather low, particularly during the daytime hours. In this area you will also find the New Holstein machine on 147.90/30. Further south the Sheboygan repeater comes into radio view on 147.66/06 as well as the Plymouth machine on 147.84/24. Continuing south will bring you into range of the Slinger machine on 146.13/73 operated by the Washington County repeater group. Travelling south of Milwaukee will put you in contact with the Racine/Kenosha repeater operating on 147.87/27 and west from Kenosha will give you the chance to work the Lake Geneva machine on 146.37/97. I hope some of this information will make your travelling in Wisconsin more enjoyable. Have a safe journey, wherever you go.

Since I also write articles for the Central Wisconsin Repeater Association, which group operates the Baraboo Repeater on 28/88 and the Madison machine on 147.96/36, perhaps I could editorialize a bit. Since I am on the Board of Directors for the CWRA systems, I do a lot of monitoring not only to check the discipline on our systems, but also to see what kind of action is going on through our equipment. I am proud to say that the users of the Baraboo system are very helpful to motorists who need assistance on their way through the state on Interstate 90-94. This also holds true for strangers who are travelling through the area and are just looking for someone to talk to. We in the CWRA encourage this type of activity, if nothing more than to give the stranger a signal report. This attitude holds true through the late night hours as well, meaning after midnight and into the wee hours. This type of activity has paid off many times when someone travelling runs into a problem. Even a couple of stations just shooting the breeze in the wee hours gives assurance to the stranger in our midst, and with the beep reset timer, everyone has a chance to call for assistance if they need it. I would hope that all repeater hierarchy who read this will take heed. I travel a great deal and observe a definite need for this type of activity to be encouraged.

73 from the Fast Zipper Closer

# COMBINED CLUB ROSTERS AVAILABLE SOON...MAYBE!

There has been much controversy and dissanction among club members and their respective clubs in regard to a club roster. Cost seems to be the most prohibitive factor for some of the smaller groups—need, desire and methodology the stumbling blocks for others. Yet, the general consensus is that a club roster is a good idea.

I would like to take this a step further and include all the HAMATEUR members, as proposed in an earlier issue, in one giant roster with letter coding for group identification as a modification to the original edict. The cost of said venture to each group will be zero. For this to become a reality, the following is needed: Someone to donate the use of a clear copy making mimeograph machine; someone to donate the stencils and paper (about 8 to 10 reams); someone to cut the stencils; and someone to lend the use of a wide carriage clean typing typewriter.

The master list is kept and has been maintained by the HAMATEUR's Circulation manager, Lee Benson, WB9TPD, on 3 X 5 cards. Each club would have to submit the names, addresses, calls and phone numbers of all their officers and control stations (the latter for repeater club only) to the Editor along with membership requirements and yearly dues, as well as the club's mailing address.

If the above has been met by the middle of July, the roster will be mailed out with the July Newsletter, or split between July and August, depending on weight.

If you can supply any of the above items or know where same can be obtained, let me know as soon as possible. If I do not have the requested club materials for the independent clubs by the time the roster is typed, it will be omitted. Sorry! You'll have to dig up your own phone numbers.

73's Larry McCalvy, WA9JMO

S T O P IN at the NEW QTH of WB9FZU
(Marsh & Lina Baker)

**OUR PLACE**

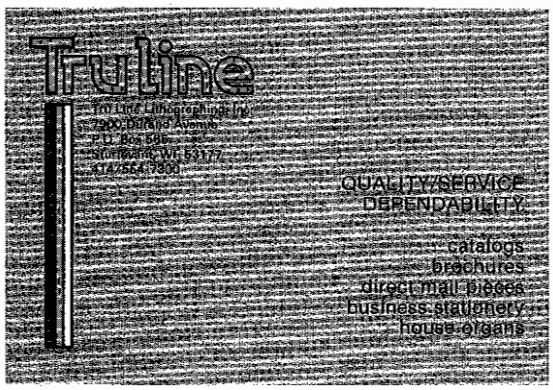
725 Main St. - Belgium, Wi.
Closed Sunday

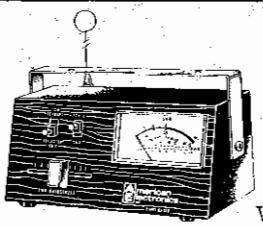
Enjoy a little QSO and have a FREE drink on us*

Charbroiled Sandwiches

Friday & Saturday SPECIAL...
FISH & BROASTED CHICKEN

*Present this ad for a Free drink
(Sorry...one free drink per customer)



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VHF BASE & MOBILE ANTENNAS

5/8-wave, 3 db gain, with
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SPECIAL...This ad worth $2.00 towards the
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PHONE 282-1244

## WISCONSIN ASSOCIATION OF REPEATERS

In the minds of most repeater operators, a repeater that has PL (sub-audible tone) access means it is a closed repeater "for members only." That is possibly true, however many more repeaters have been turning to tone access due to band congestion, skip, and the nuisance of repeater ker-chunks by distant mobiles on other systems. Most amateurs are not familiar with sub-audible tone, although it has been the way of life in the commercial two way business for almost 20 years. The thoughts of spending additional money to buy all types of tone equipment just to get into your favorite repeaters is not that appealing either.

In the interests of repeater users, as well as the operators of the systems, the Wisconsin Assn. of Repeaters recently took a look at the problem and hopefully have come up with a tone plan for the state that will make it easy on both. First, understand, the W.A.R. is not requesting or advising any repeater to use sub-audible tone. That is up to the group operating the system to decide. The purpose of the plan is to give the group some guidance in choosing the sub-audible tone to use.

In the plan, all open repeaters in a given region of the state will use the same tone frequency. In that way, users need only equip their HT or mobile for one tone and they should be able to "get into" all local open repeaters. That's a big money saver and convenience for the user! Also all repeaters that are tone-equipped will have a second de-coder to respond to a "universal" tone (100 Hz). In that way transient users, not equipped with the local code can also use the repeater. Or if you plan travel around our state, you should equip your mobile with the local "home" area code and the universal code. No need to have tones for all the districts in the state! For HT's, frequently there is only room for one tone deck, so the universal code is suggested for them. After all, it's rare a low power portable gets into distant repeaters. For base stations, operating with the universal tone is a no-no. For those few who insist on DX'ing repeaters, they must use the "local" tone of that repeater. That way others listening to repeaters the base isn't working thru don't have to put up with your rag chewing.

One more tone code has been chosen by the association. This is an "emergency" code (91.5 Hz "ZZ"). This code can be used for systems who want to have a monitor for emergency calls, perhaps at a local law enforcement agency, that isn't blabbering with normal repeater traffic. A station with an emergency at hand would place his call using the "emergency" code and receivers that are muted would be opened. This would be a good way of calling up an A.R.E.S. group for duty also. We are suggesting this code so that others will avoid using it for routine functions.

The local code assigned for Milwaukee area (Ozaukee, Washington, Waukesha, Milwaukee, Racine, and Kenosha Counties) is Code 3A (127.3 Hz). This was decided upon as most open repeaters that now have sub-audible tone use that code. In the same way, the other areas of the state (there are six in all) were assigned codes already in use, if any.

We hope the W.A.R. tone plan is one which looks to the future, as we suspect sub-audible tone will become more and more popular here is Wisconsin as it has in other states, yet makes it easy on the user. Perhaps the need for sub-audible tone has not been acute yet in Wisconsin, but it's always easier to come up with the plan before it is needed rather than wait until we have to make it fit a confused mess.

de K9PAK; Freq. Coordinator, Wisconsin Assn. of Repeaters

the HAMATEUR
EDITOR: Larry McClary WA9JMO
7453 W. Thurston Circle
Milwaukee, Wisconsin 53218

June 1977

## Meeting Notices

| | |
|---|---|
| 07/67 | July 5, Tuesday |
| Racine | July 11, Monday |
| Ozaukee | July 13, Wednesday |
| CQ3TUE | July 19, Tuesday |
| 22/82 | July 28, Thursday |
| MRAC | Sept 22, Thursday |
| TriCounty | September |
| 31/91 | September |
| 25/85 | September |
| QCWA | Oct 1, Saturday |
| 93/33 | Oct 5, Wednesday |
| 6-MIC | Unknown |

## Upcoming Events

July 31.....MRAC Picnic
August 21...6-MIC Picnic

BULK RATE
U.S. POSTAGE
P A I D
MILWAUKEE, WISC.
PERMIT NO. 4540

WB9BBJ Sue Hueneke FREO
4921 N 58 St
Mil.,. Wis. 53218

# Classified Ads

Until further notice, non-commercial ads will be accepted and published FREE for ALL Hamateur readers. Ads will be automatically published for two (2) consecutive issues, unless you request otherwise. If you wish to rerun or cancel an ad, please advise before the closing date of the next issue.

To insure the maximum success of "FOR SALE" ads, all items must include the asking price. Unless otherwise noted, phone listings are local Milwaukee numbers. CLOSING DATE for ads is the 2nd of the publication month. Direct AD COPY to: Don Habeck W9AMM, 5973 Sugarbush Lane, Greendale Wisconsin 53129

FOR SALE: Heath SB-200 linear amplifier, mint condx; $275. Contact Dan, W9ANC, 1013 Gray St., Green Bay, WI 54303 435-3045

FOR SALE: Yaesu YO-100 Monitor Scope, virtually brand new, works with most any xcvr or rcvr/xmtr pair; $180. Contact John WB9TIN Kenosha 654-0030

WANTED: Hy-Gain Hy-Tower. Contact John WB9TIN Kenosha 654-0030

WANTED: SB-34 xcvr with mic. also can use vox unit and xtal calibrator for same. Contact Bob, W9THN 258-8824

FOR SALE: Yaesu FL-101 and FR-101S with speaker, speech processor, 2 & 6 mtr converters, FM-AM-SSB filters, 10 extra crystals, excellent condition. Contact Hans K9FZD 782-4479

FOR SALE: Drake TR-22 2-mtr xcvr with 11 channels, AA-10 Amplifier, 1525 EM Micoder (a few mods); $225. Contact Brian, WB9RZL 871-4579

FOR SALE: Kenwood TS-520 xcvr with CW filter and mic. less than 6 mos old; $600. Contact Al Foster, WB9ZBT (home) 962-2795 (work) 3441440

FOR SALE: Heath HW-12 75mtr ssb xcvr with home brew AC supply, with mic: $75.Contact Hutch, W9FTY, 242-1973; 11335 Linwood Ln.Mequon 53092

FOR SALE: ICOM IC-21 24-ch 2-mtr. xcvr with 12 sets of xtals; ac or dc; $135. WANTED: Hy-Gain Rotor; contact Paul, K9LWT, Racine, 554-9170.

FOR SALE: HAL ST-6000 with scope Kleinschmidt TT-100, 60/66/75/100 wpm gears. Manuals. $600. Contact Jeff, W9QBJ, Rt#1, Box 290, Sister Bay, Wis. 54234

FOR SALE: Clegg FM-27A 2-mtr synthesized xcvr, 25 watts; $140. Call K9SHJ 421-4241